

**United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
RADIO STATION CONSTRUCTION PERMIT  
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WE2XGS

(Call Sign)

XE      FX MO

(Class of Station)

0052-EX-RR-2009

(File Number)

NAME Northrop Grumman Systems Corporation

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(b) of the Commission's Rules

Station Locations

- (1) Elkridge (HOWARD), MD - NL 39-45-53; WL 76-45-14; MOBILE: Elkridge (HOWARD), MD, within 3 km, centered around NL 39-45-53; WL 76-45-14

Frequency Information

Elkridge (HOWARD), MD - NL 39-45-53; WL 76-45-14; MOBILE: Elkridge (HOWARD), MD, within 3 km, centered around NL

| Frequency        | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|------------------|---------------|---------------------|------------------|---------------------------|
| 450-462.95 MHz   | MO            | 25K0F3E             | 0.61 W (ERP)     |                           |
| 450-462.95 MHz   | MO            | 25K0F3E             | 1.8 W (ERP)      |                           |
| 450-462.95 MHz   | FX            | 25K0F3E             | 15.2 W (ERP)     |                           |
| 463.2-467.95 MHz | MO            | 25K0F3E             | 0.61 W (ERP)     |                           |

This authorization effective May 01, 2009 and  
will expire 3:00 A.M. EST January 01, 2011

**FEDERAL  
COMMUNICATIONS  
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## Frequency Information

Elkridge (HOWARD), MD - NL 39-45-53; WL 76-45-14; MOBILE: Elkridge (HOWARD), MD, within 3 km, centered around NL

| Frequency        | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|------------------|---------------|---------------------|------------------|---------------------------|
| 463.2-467.95 MHz | MO            | 25K0F3E             | 1.8 W (ERP)      |                           |
| 463.2-467.95 MHz | FX            | 25K0F3E             | 15.2 W (ERP)     |                           |
| 468.2-470 MHz    | MO            | 25K0F3E             | 0.61 W (ERP)     |                           |
| 468.2-470 MHz    | MO            | 25K0F3E             | 1.8 W (ERP)      |                           |
| 468.2-470 MHz    | FX            | 25K0F3E             | 15.2 W (ERP)     |                           |

## Special Conditions:

- (1) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir @ sbe.org; information, www.sbe.org.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Northrop Grumman shall avoid the bands 462.950-463.200 MHz and 467.950-468.200 MHz which are used by hospitals for medical radio communications.